



Ain-Shams University
Faculty of Science
Chemistry Department

**SYNTHESIS AND REACTIONS
OF SOME
PYRAZOLOPYRIMIDINE DERIVATIVES
WITH EXPECTED BIOLOGICAL ACTIVITY**

***A THESIS SUBMITTED
BY***

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M. Sc. Organic Chemistry (2008)

To The Chemistry Department, Faculty of Science

Ain-Shams University

For The Ph.D. Degree in Organic Chemistry

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(2014)



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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ
رَبِّ أَوْزِعْنِي أَنْ أَشْكُرَ نِعْمَتَكَ الَّتِي أَنْعَمْتَ
عَلَيَّ وَعَلَىٰ وَالِدَيَّ وَأَنْ أَعْمَلَ صَالِحًا تَرْضَاهُ
وَأَدْخِلْنِي بِرَحْمَتِكَ فِي عِبَادِكَ الصَّالِحِينَ
صَدَقَ اللَّهُ الْعَظِيمُ

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DEDICATION

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Ahmed Abd-Elmotalib Osman and I wish he was beside me
now.

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way since the beginning of my studies.

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Contents

Contents

List of The Prepared Compounds.....	
List of abbreviations.....	
Abstract.....	
Summary of the original work.....	I
Literature Survey on Chemistry Of Pyrazolo[3,4-<i>d</i>]- pyrimidines.....	1
1. Introduction.....	1
2. Synthesis of pyrazolo[3,4-<i>d</i>]pyrimidine ring system.....	5
2.1. Intramolecular cyclization of the appropriate pyrazole derivatives	6
2.1.1. From amino-cyano derivatives.....	6
2.1.1.1. Reaction with acids.....	6
2.1.1.2. Reaction with orthoformates.....	9
2.1.1.3. Reaction with formamides.....	12
2.1.1.4. Benzoylation.....	14
2.1.1.5. Reaction with isocyanates.....	14
2.1.1.6. Reaction with chloro-compounds.....	16
2.1.1.7. Reaction with urea/thiourea.....	17
2.1.1.8. Reaction with carbon disulphide.....	18
2.1.1.9. Reaction with DMF DMA.....	19
2.1.1.10. Reaction with Hydrazides.....	20
2.1.2. From amino carboxamide derivatives.....	20
2.1.2.1. Reaction with acetyl chloride.....	21
2.1.2.2. Reaction with thiourea.....	23
2.1.2.3. Reaction with carbon disulphide.....	23
2.1.2.4. Reaction with aromatic aldehydes.....	24

2.1.2.5. Reaction with anhydrides.....	25
2.1.2.6. Miscellaneous.....	26
2.1.3. From amino ester derivatives.....	27
2.1.3.1. Reaction with thiophosgene.....	27
2.1.3.2. Reaction with isothiocyanates.....	27
2.1.3.3. Reaction with formamide.....	28
2.1.3.4. Reaction with urea or thiourea.....	29
2.1.3.5. Reaction with acetic anhydride.....	30
2.1.3.6. Reaction with DMF DMA.....	30
2.1.3.7. Hydrolysis.....	32
2.1.4. Miscellaneous.....	32
2.2. Intramolecular cyclization of the appropriate pyrimidine derivatives.....	33
3. Reactions of pyrazolo[3,4-<i>d</i>]pyrimidines.....	38
3.1. Substitution reactions.....	38
3.2. Halogenation.....	47
3.3. Hydrazinolysis.....	49
3.4. Formation of pyrazolotriazolopyrimidine and pyrazolotriazinopyrimidine ring systems.....	50
3.4.1. Reactions of hydrazine derivatives.....	50
3.4.2. Reactions of the amino- and diamino derivatives.....	55
3.5. Reactions of the thione-thiol derivatives.....	60
3.6. Side chain reaction.....	62
3.7. Dimerization.....	64
3.8. Formation of pyrazolopyrimidine nucleosides.....	65
3.8.1. Formation of pyrazolopyrimidine cyclic	

nucleosides.....	65
3.8.2. Formation of pyrazolopyrimidine acyclic	
nucleosides.....	71
4. Pharmacological activity.....	78
Results and Discussion.....	81
Biological Activity.....	103
1. Antiproliferative Activity.....	103
1.1. Introduction.....	103
1.2. Materials and methods.....	105
1.2.1. Chemicals.....	105
1.2.2. Cell lines and culturing.....	105
1.2.3. <i>In vitro</i> Antiproliferative Assay.....	106
1.2.4. Biochemical Assays.....	107
1.2.5. Antioxidant Enzyme Assays.....	108
1.2.6. Oxidative Stress Assays.....	108
1.2.7. Estimation of Nucleic Acids and Protein.....	108
1.3. Statistical analysis.....	109
1.4. Results.....	109
1.4.1. <i>In vitro</i> Antiproliferative Activity.....	109
1.5. Biochemical Assays.....	113
1.6. Conclusion.....	116
2. Antioxidant Activity.....	120
2.1. Introduction.....	120
2.2. Materials and Methods.....	121
2.3. Radical scavenging activity (RSA %)......	121
2.3.1. DPPH Assay.....	121
2.3.2. ABTS assay.....	122
